

Listing of the Claims

Please accept amended claims 1, 3, 5, 8, 10, 11, 13-15, 17, 18, 23-28, new claim 29, and cancel claim 12 without prejudice as follows:

1. (Currently Amended) A system for discovering potential devices on a peer-to-peer (P2P) network, comprising:

a seeker device; and

a plurality of ~~end-user-potential~~ devices operatively connected to the P2P network;

wherein each of the plurality of ~~end-user-potential~~ devices is associated with at least one or more identity files, each of ~~the~~ identity files comprising at least one ~~plurality of~~ searchable elements;

wherein at least one or more of the plurality of ~~potential~~ end-user devices post their at least one or more identity files on the P2P network using a Web service request to a Web Service Provider;

wherein the seeker device searches the identity files posted on the P2P network to determine at least one device of the end-user devices for a collaboration session ~~discover one or more of the plurality of potential devices based on the one or more identity files of the plurality of the potential devices~~; and

wherein the seeker device initiates a collaboration session with the determined end-user devices ~~one or more potential devices~~.

2. (Original) The system of claim 1, wherein the seeker device is a seeker end-user device and the plurality of potential devices are a plurality of potential end-user devices.

3. (Currently Amended) The system of claim 2, wherein ~~the each of~~ seeker end-user device and each of the plurality of potential end-user devices comprises at least one of a personal digital assistant, a laptop, and a cellular phone.

4. (Currently Amended) The system of claim 1, wherein ~~each of the~~ at least one or more identity files of the plurality of the potential devices is downloaded from a Web service provider in response to the seeker device sending a Web service request to the

Web service provider.

5. (Currently Amended) The system of claim 42, wherein the seeker end-user device logs on a Web service provider to gain access to the P2P network using Web services and simple-object access protocols (SOAP) over hypertext transfer protocol (HTTP) and internet protocol (IP) networks.

6. (Original) The system of claim 1, wherein the seeker device is a machine connected to an IP network.

7. (Original) The system of claim 1, wherein the P2P network comprises at least one of Kazaa, OpenNAP, Gnutella, FastTrack, LimeWire, eMule/Kademlia, and Napster.

8. (Currently Amended) The system of claim 1, wherein each ~~of the one or more~~ identity files ~~of the plurality of the potential devices~~ comprises an extensible markup language (XML) file.

9. (Original) The system of claim 1, wherein the collaboration session is independent of the P2P network.

10. (Currently Amended) A method for a seeker device discovering potential collaborators on a peer-to peer (P2P) network, comprising:
discovering one or more entry point nodes to the P2P network;
registering a seeker device on the P2P network based on the discovered nodes;
downloading a search form to the seeker device, wherein the search form includes a plurality of search fields for identifying the potential collaborators;
~~performing identity provisioning on a P2P network~~;
~~performing one or more searches on the P2P network~~;
performing a search by the seeker device on the P2P network for identity files that include data for at least one of the search fields;
determining collaborators for a collaboration session from the~~obtaining one or~~

~~more search results for potential collaborators on the P2P network that correspond to the identity files; and~~

~~initiating at least one of an application and a service to form a the collaboration session between the determined with one or more potential collaborators from the search results.~~

11. (Currently Amended) The method of claim 10, further comprising wherein performing identity provisioning comprises performing self-provisioning.

12. (Cancelled)

13. (Currently Amended) The method of claim 10, further comprising obtaining service and identity availability for ~~each of the one or more~~ a result of the search results.

14. (Currently Amended) The method of claim 10, further comprising narrowing the search ~~results by searching only the identity files whose filenames include data for at least one of the search fields.~~

15. (Currently Amended) The method of claim ~~44~~10, wherein ~~narrowing the search results performing a search~~ comprises:

~~downloading a search form from a Web service provider in response to a Web service request, the search form comprising a plurality of search fields;~~

~~populating at least one or more of the plurality of search fields; and~~

~~narrowing the one or more search results based on the one or more of the plurality of populated search fields.~~

16. (Original) The method of claim 10, wherein discovering one or more entry point nodes to the P2P network comprises:

querying a Web service running on a Web service cluster;

receiving an identity form from a Web service provider in response to a Web service request, the identity form comprises a plurality of information fields;

populating one or more of the plurality of information fields; and
posting the identity form on the P2P network.

17. (Currently Amended) A method for a seeker device ~~to discovering~~ potential collaborators on a peer-to peer (P2P) network, comprising:
registering ~~the seeker device with a~~the P2P network;
initiating a Web service to a Web service provider;
requesting an available P2P server on the P2P network from the Web service provider using the Web service;
registering the available P2P server in a Web service cluster using the Web service;
~~performing identity self provisioning on the P2P network;~~
~~obtaining one or more search results searching for a potential collaborator on the P2P network;~~
~~obtaining service and identity availability for each search result;~~
~~downloading a search form from the Web service provider to the seeker device,~~
~~wherein the search form includes a plurality of search fields for identifying the potential collaborators;~~
~~performing a search by the seeker device on the P2P network for identity files that include data for at least one of the search fields;~~
~~determining the collaborators that correspond to the identity files; and~~
~~narrowing the number of search results to generate a narrowed result list; and~~
initiating a collaboration session with ~~one or more potential~~the collaborators on the narrowed result list.

18. (Currently Amended) The method of claim 17, wherein registering with a P2P network comprises registering automatically with ~~a~~the P2P network when the seeker end-user device connects to an IP network.

19. (Original) The method of claim 17, wherein initiating a Web service to a Web service provider comprises initiating a Web service to a Web service provider using

HTTP/XML/SOAP protocols.

20. (Original) The method of claim 17, further comprising discovering the Web service provider using a UDDI Web service registry and business entities.

21. (Original) The method of claim 17, wherein requesting an available P2P server on the P2P network from the Web service provider using the Web service comprises sending a Web service request using a Web service to the Web service provider, the Web service request requesting a list of available P2P servers.

22. (Original) The method of claim 21, wherein sending a Web service request using a Web service to the Web service provider comprises sending a Web service request defined in a WSDL service descriptor file using a Web service to the Web service provider.

23. (Currently Amended) The method of claim 17, further comprising ~~wherein~~ performing identity self-provisioning on the P2P network ~~by~~ comprises:

receiving an identity form from the Web service provider in response to a Web service request, the identity form comprises a plurality of information fields;
populating one or more of the plurality of information fields; and
posting the identity form on the P2P network.

24. (Currently Amended) The method of claim 17, wherein ~~obtaining one or more the search is restricted to those identity files~~ results searching for a potential collaborator on the P2P network comprises performing a P2P whose filenames include data for at least one of the search fields.

25. (Currently Amended) The method of claim 17, further comprising ~~wherein~~ narrowing the ~~number of search results to generate a narrowed result list~~ by ~~comprises~~:
downloading a search form from the Web service provider in response to a Web service request, the search form comprising a plurality of search fields;

populating at least one or more of the plurality of search fields;
narrowing the ~~one or more~~ search results based on the populated ~~one or more of~~
the plurality of search fields; and
storing ~~at the results of the narrowed search~~ from the step of narrow in the narrowed
~~result list.~~

26. (Currently Amended) The method of claim 17, wherein ~~the~~ initiating a
collaboration session ~~with one or more potential collaborators on the narrowed result list~~
~~comprises with one or more potential collaborators on the narrowed result list is~~
independent of the P2P network.

27. (Currently Amended) A machine-readable medium having instructions stored
thereon for execution by a processor to perform a method for a seeker device discovering
potential collaborators on a peer-to peer (P2P) network, comprising:
discovering one or more entry point nodes to the P2P network;
registering a seeker device on the P2P network based on the discovered nodes;
downloading a search form to the seeker device, wherein the search form includes
a plurality of search fields for identifying the potential collaborators;
~~performing identity provisioning on a P2P network~~;
~~performing one or more searches on the P2P network~~;
performing a search by the seeker device on the P2P network for identity files that
include data for at least one of the search fields;
determining collaborators for a collaboration session from the ~~obtaining one or~~
~~more search results for potential collaborators on the P2P network that correspond to the~~
identity files; and
initiating ~~at least one of an application and a service to form a~~ the collaboration
session between the determined ~~with one or more potential collaborators from the search~~
~~results.~~

28. (Currently Amended) A machine-readable medium having instructions stored
thereon for execution by a processor to perform a method for a seeker device to

discovering potential collaborators on a peer-to peer (P2P) network, comprising:

- registering the seeker device with the P2P network;
- initiating a Web service to a Web service provider;
- requesting an available P2P server on the P2P network from the Web service provider using the Web service;
- registering the available P2P server in a Web service cluster using the Web service;
- performing identity self-provisioning on the P2P network;
- obtaining one or more search results searching for a potential collaborator on the P2P network;
- obtaining service and identity availability for each search result;
- downloading a search form from the Web service provider to the seeker device,
wherein the search form includes a plurality of search fields for identifying the potential collaborators;
- performing a search by the seeker device on the P2P network for identity files that include data for at least one of the search fields;
- determining the collaborators that correspond to the identity files; and
- narrowing the number of search results to generate a narrowed result list; and
initiating a collaboration session with one or more potential collaborators on the narrowed result list.

29. (New) The method of claim 10, wherein each identity file is stored as one of an XML file on a P2P shared directory on a potential collaborator or on a distributed Hash Table on the P2P network.